UNITED STATES NAVAL OBSERVATORY

CIRCULAR NO. 11

U. S. Naval Observatory, Washington 25, D. C. February 10, 1950

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

JUNE - AUGUST, 1949

By Lucy T. Day

All measurements and spot counts were made at the Naval Observatory from plates secured either in Washington, or at Mt. Wilson. Difference in longitude is measured from the central meridian, positive toward the west; latitude is positive toward the north. Areas are corrected for foreshortening and expressed in millionths of the sun's hemisphere. For each date at the bottom of the columns headed: Mt. Wilson group number, difference in longitude, latitude, area of spot or group, and spot count are included respectively: number of groups, assumed longitude of the central meridian, assumed latitude of the center of the disk, total area of spots and groups, and total spot count. The date is expressed in Universal Time. The observatory at which the plate was secured and its quality are indicated directly below this date. (NO stands for U. S. Naval Observatory, MW for Mt. Wilson Observatory; and the symbols VG, G, F and P mean very good, good, fair and poor respectively.) Spots not assigned a number at Mt. Wilson are indicated by an asterisk. Corresponding data were published in the Monthly Weather Review from February 1927 to December 1947. Since December 31, 1947 they are published monthly in this series of circulars.

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Distance from center of disk	Area of spot or group	Spot count
June		o	o	o		
1.644	9844	−83	−15	83	48	1
NO-G	9843	−57	+11	59	48	12
	9842	−52	+16	54	6	3
	9840	−37	+16	40	36	8
	9840	−30	+14	34	36	7
	9840	−24	+13	27	206	2
	9841	− 4	−13	14	48	13
	9841	+ 3	−13	13	61	4
	9838	− 3	+21	22	12	1
	9838	− 2	+23	24	121	1
	9836	+10	+ 5	12	97	6
	9836	+14	+ 4	15	48	4
	9836	+19	+ 2	20	73	10
	9836	+19	+ 3	20	533	1
	9831	+38	− 5	38	48	1
	9826	+54	+15	57	24	2
	(9)	(142)	(−1)		1,445	76
2.670	9844	−70	−16	72	97	2
NO-G	9843	−43	+10	44	121	12
	9842	−39	+15	42	16	2
	9840	−23	+17	28	6	3
	9840	−17	+14	22	48	2
	9840	−10	+14	17	218	3
	9845	− 3	− 4	4	48	2
	9841	+ 8	−13	15	36	2
	9841	+17	−13	22	73	2
	9838	+ 9	+23	25	73	3
	9836	+23	+ 5	24	121	5
	9836	+27	+ 4	28	12	2
	9836	+30	+ 2	30	73	13
	9836	+32	+ 3	33	533	1
	9837	+27	+15	31	24	4
	9831	+52	− 5	52	48	1
	9826	+68	+16	68	24	1
	(11)	(128)	(0)		1,571	60
3.650	9844	−57	−15	58	97	5
NO-F	9844	−51	−14	53	24	2
	9843	−30	+10	32	48	5
	9843	−26	+12	28	73	6
	9842	−25	+15	29	73	3
	9840	+ 4	+14	15	218	2
	9845	+ 7	− 4	8	12	4
	9838	+23	+23	32	61	6
	9841	+24	−13	27	24	2
	9841	+30	−13	33	61	2
	9846	+35	+24	42	24	4
	9836	+35	+ 5	36	97	6
	9836	+45	+ 4	45	582	7
	9831	+65	− 5	65	48	1
	9826	+80	+16	80	24	1
	(11)	(115)	(0)		1,466	56
4.644	9848	−63	+16	65	16	2
NO-VG	9844	−44	−16	46	73	1
	9847	−35	−19	40	12	4
	9842	−20	+14	25	48	2
	9842	−14	+14	20	48	9
	9842	−11	+14	18	24	1
	9843	−15	+ 9	17	121	20
	9843	−12	+12	18	109	8
	9840	+ 8	+12	15	12	1
	9840	+16	+14	21	218	3
	9845	+25	− 5	26	24	2
	9838	+35	+22	40	48	1
	9841	+36	−13	38	24	2
	9841	+44	−13	46	73	3
	9846	+48	+23	52	48	3
	9836	+48	+ 3	48	48	2
	9836	+58	+ 3	58	533	3
	9831	+78	− 5	78	36	2
	(12)	(102)	(0)		1,515	69
5.877	9849	−68	+ 7	68	12	1
MW-P	9848	−48	+17	51	12	3
	9844	−28	−16	33	61	1
	9842	− 3	+15	15	36	1
	9842	+ 3	+14	14	61	6
	9842	+ 5	+14	15	97	2
	9843	+ 1	+10	10	73	3
	9843	+ 6	+12	13	121	1
	9840	+31	+13	35	48	1
	9840	+32	+14	35	194	1
	9840	+36	+12	37	24	1
	9845	+42	− 5	42	48	3
	9838	+51	+22	56	24	1
	9841	+61	−13	62	48	1
	9846	+64	+23	67	48	1
	9836	+67	+ 4	67	48	1
	9836	+75	+ 3	75	533	1
	(11)	(86)	(0)		1,488	29
6.563	9849	−57	+ 7	58	48	4
MW-F	9848	−42	+17	45	12	3
	9848	−37	+17	41	12	2
	9844	−17	−16	23	48	1
	9842	+12	+13	18	97	4
	9842	+16	+12	21	145	10
	9842	+19	+11	22	121	5
	9843	+12	+11	17	121	3
	9843	+15	+11	17	121	4
	9840	+43	+14	45	194	1
	9840	+44	+13	46	12	1
	9845	+56	− 4	56	24	6
	9838	+62	+21	64	24	3
	9841	+72	−13	72	48	3
	9836	+78	+ 4	78	97	2
	9836	+88	+ 3	88	485	1
	(10)	(77)	(0)		1,609	53
7.646	9849	−43	+ 7	44	24	6
NO-G	9848	−22	+16	27	6	2
	9844	− 4	−16	17	36	1

Date U.T. June	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk °	Area of spot or group	Spot count
	9842	+20	+16	26	6	1
	9842	+24	+14	28	48	7
	9842	+30	+13	33	170	7
	9843	+24	+12	27	36	6
	9843	+32	+11	33	194	2
	9840	+56	+14	57	194	1
	9845	+71	− 4	71	97	2
	(7)	(62)	(0)		811	35
8.648	9851	−75	− 4	75	12	2
NO-F	9850	−72	−20	74	12	2
	9849	−33	+ 7	35	36	1
	9849	−31	+ 7	33	24	6
	9848	−13	+16	20	12	3
	9848	− 8	+14	16	12	1
	9844	+10	−16	18	36	1
	9842	+38	+14	41	194	18
	9842	+42	+12	44	206	3
	9843	+38	+11	40	97	8
	9843	+46	+11	48	194	2
	9840	+70	+14	70	194	1
	9845	+85	− 4	85	97	4
	(9)	(49)	(0)		1,126	52
9.642	9851	−63	− 4	63	12	2
NO-F	9850	−59	−19	61	6	1
	9849	−19	+ 7	21	12	1
	9844	+23	−16	28	36	1
	9842	+51	+16	53	12	1
	9842	+53	+13	55	242	24
	9842	+57	+12	58	291	1
	9843	+51	+11	53	73	1
	9843	+60	+11	61	170	1
	9840	+83	+14	83	194	1
	(7)	(36)	(0)		1,048	34
10.664	9852	−86	− 4	86	194	2
NO-F	9852	−78	− 4	78	194	1
	9853	−78	−16	79	485	1
	9849	− 6	+ 8	11	12	1
	9844	+36	−15	39	24	1
	9843	+66	+11	67	73	3
	9843	+75	+11	75	145	2
	9842	+67	+13	67	145	3
	9842	+73	+14	73	242	2
	(6)	(22)	(0)		1,514	16
11.692	9853	−70	−16	71	170	3
NO-F	9853	−66	−15	68	145	2
	9853	−64	−16	66	461	1
	9852	−67	− 5	67	218	2
	9852	−64	− 4	64	218	3
	9852	−63	− 1	63	12	1
	9856	−30	− 8	32	48	3
	9855	+28	+19	33	6	2
	9854	+41	+15	44	24	6

Date U.T. June	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk °	Area of spot or group	Spot count
	9844	+50	−15	52	24	1
	9843	+80	+11	80	121	1
	9842	+82	+13	82	242	4
	(8)	(9)	(+1)		1,690	29
12.648	9853	−58	−16	60	97	3
NO-G	9853	−53	−15	55	97	6
	9853	−51	−16	53	436	1
	9852	−55	− 5	55	194	1
	9852	−52	− 4	52	194	7
	9856	−17	− 8	21	48	3
	9858	+ 9	− 6	12	36	4
	9857	+30	− 6	31	24	2
	9844	+62	−15	64	12	1
	(6)	(356)	(+1)		1,138	28
13.642	9853	−46	−17	49	97	8
NO-G	9853	−40	−15	43	61	3
	9853	−38	−17	42	436	1
	9852	−41	− 5	41	194	7
	9852	−38	− 4	38	73	6
	9861	−11	− 7	14	12	3
	9856	− 3	− 9	11	36	8
	9860	+21	−19	29	12	2
	9859	+29	+11	31	24	5
	9857	+42	− 6	42	24	7
	9857	+44	− 5	44	36	1
	9854	+67	+17	67	121	3
	9854	+70	+16	70	48	8
	(8)	(343)	(+1)		1,174	62
14.647	9853	−33	−17	37	97	3
NO-G	9853	−30	−21	37	6	1
	9853	−27	−15	32	73	10
	9853	−24	−16	29	436	1
	9852	−27	− 5	28	145	2
	9852	−24	− 4	26	97	4
	9861	+ 2	− 7	8	12	2
	9860	+38	−18	42	6	1
	9857	+57	− 5	57	24	4
	9854	+80	+17	80	291	3
	(6)	(330)	(+1)		1,187	31
15.572	9863	−32	−12	34	12	4
MW-VG	9853	−20	−16	26	48	10
	9853	−15	−14	21	97	24
	9853	−12	−17	21	24	8
	9853	−11	−14	18	388	1
	9852	−19	− 5	21	16	4
	9852	−14	− 4	15	24	8
	9852	−13	− 5	14	121	1
	9852	−11	− 4	13	48	10
	9860	+50	−17	53	6	1
	9859	+58	+12	59	48	10
	(5)	(317)	(+1)		832	81

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Distance from center of disk	Area of spot or group	Spot count
June		o	o	o		
16.658	9865	−80	+22	80	145	2
N O-VG	9853	− 8	−17	20	36	7
	9853	+ 1	−18	19	48	9
	9853	+ 3	−16	17	388	1
	9852	− 3	− 5	6	121	18
	9852	+ 1	− 6	7	194	5
	9852	+ 3	− 4	6	24	20
	9864	+11	+26	26	6	3
	9862	+27	+20	32	48	1
	9859	+70	+12	70	73	4
	9859	+75	+11	75	12	1
	(6)	(303)	(+1)		1,095	71
17.561	9865	−69	+22	70	121	1
M W-F	9853	+ 5	−17	19	16	9
	9853	+14	−15	21	24	8
	9853	+15	−16	23	339	1
	9852	+ 9	− 5	12	61	12
	9852	+13	− 4	15	194	15
	9862	+39	+21	43	73	4
	(4)	(291)	(+1)		828	50
18.565	9868	−76	− 7	76	194	1
M W-G	9867	−63	+17	63	24	3
	9865	−55	+22	57	97	1
	9866	−12	+14	17	36	8
	9852	+23	− 5	24	36	9
	9852	+28	− 5	29	218	4
	9853	+27	−15	32	12	1
	9853	+28	−15	33	339	1
	9862	+53	+21	56	36	8
	(7)	(278)	(+1)		992	36
19.861	9870	−83	+ 8	83	242	1
N O-G	(*)	−59	+11	59	48	2
	9868	−59	− 7	60	145	2
	9867	−48	+18	50	24	4
	9867	−43	+17	46	24	3
	9865	−40	+22	43	61	1
	9853	+38	−13	41	6	1
	9853	+44	−15	46	315	1
	9852	+39	− 4	40	12	4
	9852	+43	− 4	43	97	1
	9852	+44	− 4	44	48	8
	9862	+68	+19	70	48	3
	9869	+69	+ 5	69	12	1
	(9)	(261)	(+2)		1,082	32
20.663	9872	−88	+ 2	88	194	1
N O-G	9871	−81	+12	81	48	1
	9870	−71	+ 7	71	291	1
	9868	−48	− 7	49	170	2
	9867	−37	+17	40	36	6
	9865	−30	+20	34	48	1
	9853	+51	−16	53	6	1
	9853	+58	−16	61	291	1
	9852	+54	− 5	54	145	4
	9862	+80	+19	80	145	1
	9869	+83	+ 5	83	24	2
	(10)	(250)	(+2)		1,398	21
21.669	9873	−76	+11	76	73	1
N O-VG	9873	−70	+ 8	70	73	4
	9872	−74	+ 2	74	339	1
	9871	−60	+11	61	12	1
	9870	−58	+ 7	58	291	1
	9868	−34	− 7	35	170	2
	9867	−23	+17	27	24	8
	9867	−18	+16	22	12	1
	9865	−17	+21	25	36	2
	9853	+68	−19	70	6	1
	9853	+71	−16	73	291	1
	9852	+68	− 5	69	121	3
	(9)	(237)	(+2)		1,448	26
22.647	9875	−78	− 9	79	582	1
N O-VG	9873	−62	+11	63	170	9
	9873	−58	+ 8	59	97	12
	9873	−55	+ 5	55	6	1
	9872	−60	+ 2	60	339	1
	9870	−46	+ 5	46	61	4
	9870	−44	+ 5	44	194	1
	9868	−21	− 8	24	170	1
	9867	−10	+17	18	48	8
	9867	− 7	+17	17	48	8
	9867	− 5	+16	15	12	1
	9865	− 4	+21	19	12	2
	9852	+83	− 4	83	97	2
	9853	+85	−16	85	291	1
	(9)	(224)	(+2)		2,127	52
23.644	9875	−80	− 4	80	145	1
N O-G	9875	−65	− 9	66	582	1
	9874	−61	+17	63	6	1
	9873	−49	+10	50	206	18
	9873	−45	+ 8	46	12	3
	9873	−42	+ 8	43	145	14
	9872	−47	+ 2	47	315	1
	9870	−33	+ 5	33	73	9
	9870	−31	+ 5	31	194	1
	9876	−21	+10	22	12	2
	9868	−10	− 5	13	12	4
	9868	− 8	− 8	14	170	1
	9868	− 5	−10	13	12	6
	9867	+ 3	+18	17	48	7
	9867	+ 8	+16	16	48	8
	9865	+11	+21	22	12	1
	(9)	(210)	(+2)		1,992	78
24.647	9877	−77	+10	77	121	1
N O-G	9875	−67	− 5	5	145	1
	9875	−60	− 5	5	24	1

Date U.T. June	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk °	Area of spot or group	Spot count
	9875	−53	− 7	54	24	1
	9875	−52	− 9	53	679	1
	9873	−37	+ 9	38	242	11
	9873	−35	+11	37	24	5
	9873	−35	+ 7	36	6	1
	9873	−30	+ 6	30	73	10
	9872	−34	+ 2	34	315	1
	9870	−21	+ 5	22	73	3
	9870	−18	+ 5	19	194	1
	9876	− 8	+ 9	12	24	8
	9868	+ 7	− 8	13	145	2
	9867	+20	+17	25	12	3
	9865	+22	+24	31	12	1
	(9)	(197)	(+2)		2,113	51
25.643	9878	−85	+14	85	48	1
NO-VG	9872	−64	+10	64	121	1
	9875	−53	− 6	54	145	4
	9875	−46	− 6	47	24	8
	9875	−40	− 5	41	97	8
	9875	−38	− 8	40	679	1
	9873	−24	+11	25	291	14
	9873	−17	+ 7	18	242	26
	9872	−20	+ 2	20	339	1
	9870	− 7	+ 6	9	48	5
	9870	− 4	+ 6	5	194	1
	9876	+ 6	+ 9	9	12	3
	9868	+20	− 6	22	73	4
	(8)	(184)	(+2)		2,313	77
26.643	9878	−77	+13	77	109	3
NO-VG	9878	−70	+12	70	97	1
	9877	−51	+11	52	109	5
	9875	−40	− 5	41	145	1
	9875	−28	− 7	30	97	15
	9875	−25	− 8	27	679	1
	9873	−11	+10	14	218	20
	9873	− 5	+10	10	97	15
	9873	− 1	+ 5	3	145	8
	9872	− 7	+ 2	7	339	1
	9870	+ 8	+ 5	9	73	6
	9870	+10	+ 5	11	194	1
	9876	+18	+ 9	20	48	7
	9876	+21	+10	23	61	1
	9868	+24	− 9	26	12	2
	9868	+34	− 8	36	36	2
	9867	+28	+17	32	6	2
	9865	+36	+21	40	6	2
	(10)	(171)	(+2)		2,471	93
27.642	9882	−80	−23	80	73	3
NO-VG	(*)	−78	+ 9	78	24	2
	9878	−64	+13	65	73	1
	9878	−57	+12	58	97	1
	9877	−39	+11	40	24	6
	9877	−37	+12	38	97	2
	9875	−27	− 5	28	97	1

Date U.T. June	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk °	Area of spot or group	Spot count
	9875	−14	− 7	17	61	3
	9875	−12	− 8	17	679	1
	9873	+ 3	+10	8	194	15
	9873	+ 7	+10	11	121	17
	9873	+ 9	+ 9	12	48	5
	9873	+12	+ 8	14	109	9
	9872	+ 7	+ 2	7	315	1
	9870	+21	+ 6	23	61	11
	9870	+23	+ 6	24	170	1
	9876	+31	+ 8	32	48	6
	9876	+33	+ 9	34	97	1
	9879	+33	+15	35	121	10
	9880	+42	+16	44	48	5
	9880	+45	+15	46	121	1
	(11)	(158)	(+2)		2,678	102
28.563	9884	−79	−14	79	12	1
MW-VG	9887	−70	−15	72	73	.4
	9882	−69	−20	71	242	3
	9883	−66	+11	66	97	12
	9881	−59	+14	60	73	11
	9881	−55	+13	56	97	11
	9878	−51	+15	52	97	3
	9878	−49	+15	51	97	1
	9878	−46	+12	46	24	16
	9878	−45	+14	46	73	1
	9877	−27	+13	30	48	12
	9877	−25	+12	27	73	1
	9875	−13	− 2	14	73	2
	9875	− 2	− 5	8	24	15
	9875	+ 2	− 9	11	48	9
	9875	+ 3	− 8	12	630	1
	9873	+20	+12	22	388	55
	9873	+26	+ 8	27	97	26
	9872	+20	+ 2	20	388	1
	9870	+34	+ 5	34	48	11
	9870	+35	+ 6	35	170	1
	9876	+45	+11	45	73	1
	9879	+46	+15	47	145	17
	9880	+53	+17	55	121	16
	9880	+57	+13	58	242	19
	(14)	(145)	(+3)		3,453	250
29.575	9884	−65	−15	67	24	4
MW-G	9887	−56	−14	57	36	1
	9882	−55	−19	59	218	4
	9883	−53	+12	54	61	6
	9881	−44	+14	45	97	8
	9878	−39	+15	40	97	10
	9878	−36	+15	37	73	1
	9878	−33	+13	35	24	19
	9878	−31	+15	33	48	4
	9886	−34	− 6	35	24	4
	9877	−11	+12	14	48	1
	9875	+ 1	− 2	5	24	1
	9875	+11	− 7	15	48	6
	9875	+13	− 9	17	24	9
	9875	+14	− 8	18	630	1

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Heliographic Distance from center of disk	Area of spot or group	Spot count
June		°	°	°		
	9873	+33	+12	34	339	37
	9873	+39	+ 8	39	97	15
	9872	+33	+ 2	33	388	2
	9870	+47	+ 5	47	24	10
	9870	+49	+ 6	49	97	1
	9876	+59	+11	59	36	2
	9879	+55	+15	56	24	10
	9879	+65	+15	66	242	7
	9880	+71	+13	71	48	2
	9880	+74	+13	74	242	1
	(15)	(132)	(+3)		3,013	166
30.769	9882	−40	−21	46	73	6
N O-F	9883	−39	+12	40	24	1
	9883	−34	+10	35	12	1
	9881	−29	+12	31	97	5
	9878	−22	+13	23	73	4
	9878	−20	+14	23	61	1
	9878	−18	+13	21	48	7
	9878	−16	+15	20	97	5
	9878	−15	+14	18	24	1
	9886	−20	− 7	23	12	1
	9877	+ 3	+11	9	36	2
	9875	+28	− 8	31	48	5
	9875	+31	−11	34	48	6
	9875	+31	− 8	34	533	1
	9885	+43	−13	45	121	13
	9872	+48	+ 2	48	6	1
	9872	+50	+ 3	50	291	1
	9873	+48	+11	48	97	8
	9873	+57	+11	57	12	1
	9873	+57	+ 7	57	24	4
	9870	+65	+ 6	65	61	1
	9876	+77	+10	77	145	5
	9879	+80	+15	80	194	4
	9880	+85	+17	85	48	1
	(14)	(116)	(+3)		2,185	85

Mean daily area for 30 days = 1,627
Mean 10 g+s for 30 days = 153.4

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Heliographic Distance from center of disk	Area of spot or group	Spot count
July		°	°	°		
1.678	9890	−70	−16	72	6	1
N O-F	9889	−62	−32	67	36	2
	9888	−35	−16	38	12	3
	9882	−28	−21	37	48	6
	9881	−17	+15	21	97	5
	9881	−15	+12	17	12	2
	9878	−10	+ 8	11	24	6
	9878	−10	+13	13	145	15
	9878	− 7	+13	12	97	1
	9878	− 3	+13	12	145	12
	9877	+17	+11	18	36	2
	9875	+41	− 8	42	24	1
	9875	+43	− 8	45	485	1
	9875	+43	−11	45	36	3
	9885	+56	−13	57	194	4
	9885	+60	−11	62	145	7
	9873	+61	+11	61	24	6
	9873	+67	+10	67	12	4
	9872	+62	+ 2	62	339	1
	9870	+78	+ 5	78	97	1
	(12)	(104)	(+3)		2,014	83
2.728	9889	−48	−32	58	61	1
N O-G	9888	−21	−16	28	24	3
	9882	−15	−20	28	36	6
	9887	−15	−15	23	12	1
	9881	− 4	+13	11	97	6
	9878	+ 4	+12	11	145	10
	9878	+ 6	+10	9	61	7
	9878	+ 7	+14	13	73	1
	9878	+11	+13	15	194	12
	9877	+31	+11	32	24	2
	9875	+57	−10	59	73	4
	9875	+57	−11	60	436	1
	9875	+58	−14	61	24	3
	9885	+68	−13	70	194	1
	9885	+73	−12	74	145	3
	9872	+76	+ 2	76	339	1
	(10)	(90)	(+3)		1,938	62
3.645	9889	−35	−32	48	61	1
N O-G	9892	−18	+15	22	6	2
	9888	− 7	−17	22	73	8
	9888	− 4	−16	19	48	1
	9888	− 2	−16	18	12	4
	9882	− 3	−20	23	24	8
	9881	+ 8	+15	15	73	7
	9878	+17	+13	20	194	2
	9878	+20	+ 9	21	12	2
	9878	+21	+14	23	73	1
	9878	+24	+11	25	97	10
	9877	+42	+11	42	24	5
	9875	+67	− 9	68	97	4
	9875	+70	− 9	70	436	1
	9891	+76	+11	76	12	2
	9885	+80	−14	80	97	1
	(10)	(78)	(+3)		1,339	59
4.647	9889	−30	−32	45	24	7
N O-G	9889	−21	−32	40	61	1
	9892	− 8	+15	15	12	4
	9892	− 6	+18	17	12	1
	9888	+ 5	−17	20	24	7
	9888	+11	−16	22	24	5
	9881	+22	+13	23	48	8
	9878	+30	+13	32	145	11
	9878	+34	+14	35	73	1
	9878	+36	+11	37	48	5
	9893	+32	−27	42	24	4
	9875	+84	− 8	84	436	1
	(7)	(65)	(+3)		931	55

Date U.T. July	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk °	Area of spot or group	Spot count
5.647	9895	−82	−19	82	48	1
N O-G	9894	−70	−25	74	97	1
	9889	−11	−31	36	12	1
	9889	− 8	−32	35	36	2
	9888	+18	−17	27	36	8
	9881	+35	+13	37	24	6
	9878	+44	+12	45	24	2
	9878	+47	+14	48	61	1
	9878	+50	+12	51	24	3
	(6)	(52)	(+3)		362	25
6.649	9895	−68	−19	70	73	1
N O-G	9894	−65	−25	69	24	4
	9894	−58	−25	63	12	3
	9894	−57	−25	62	73	1
	9898	−37	−35	52	12	3
	9898	−32	−35	48	24	2
	(*)	−20	+11	22	24	3
	9889	− 2	−32	35	24	3
	9889	+ 6	−31	34	24	4
	9896	+20	−19	30	97	14
	9896	+23	−20	33	73	6
	9888	+32	−16	37	12	5
	9878	+57	+12	58	12	2
	9878	+61	+14	62	61	1
	9893	+59	−27	63	24	2
	(9)	(38)	(+3)		569	54
7.565	9899	−80	−15	80	194	1
MW-VG	9895	−66	−17	68	12	1
	9895	−65	−19	68	48	2
	9895	−60	−19	63	6	1
	9894	−54	−25	60	48	15
	9894	−46	−24	52	24	7
	9894	−45	−25	53	48	1
	9898	−19	−34	43	12	5
	9897	+ 2	+ 8	5	12	5
	9889	+18	−31	39	24	3
	9896	+34	−19	40	145	29
	9896	+38	−20	44	242	8
	9888	+45	−16	50	24	7
	9888	+49	−20	53	12	2
	9893	+72	−27	75	12	2
	9878	+75	+15	75	73	1
	(10)	(26)	(+4)		936	90
8.673	9899	−66	−15	68	242	1
N O-G	9895	−40	−19	46	48	1
	9894	−40	−27	50	12	5
	9894	−31	−26	43	48	2
	9898	− 4	−34	38	6	3
	9896	+47	−19	52	73	10
	9896	+51	−19	56	291	1
	(5)	(12)	(+4)		720	23
9.660	9899	−53	−15	56	194	1
N O-F	9895	−28	−19	36	36	2
	9894	−17	−25	33	48	1
	9900	− 5	+22	18	12	3
	9896	+60	−18	63	121	3
	9896	+63	−17	66	24	4
	9896	+66	−18	70	291	1
	(5)	(358)	(+4)		726	15
10.584	9901	−66	+19	66	73	4
MW-G	9899	−41	−14	45	170	1
	9899	−38	−13	42	6	1
	9894	−12	−24	30	24	8
	9894	− 6	−24	29	16	1
	9900	+ 4	+22	19	6	2
	9900	+ 7	+23	22	12	5
	9896	+71	−19	73	97	2
	9896	+76	−17	78	24	4
	9896	+80	−17	80	242	3
	(5)	(346)	(+4)		670	31
11.668	9901	−56	+17	56	194	5
N O-G	9901	−50	+19	52	242	1
	9903	−45	− 7	47	24	3
	9899	−27	−14	32	194	1
	9902	−11	− 5	15	24	1
	9894	+ 9	−26	30	36	1
	9900	+18	+22	25	24	1
	(6)	(332)	(+4)		738	13
12.792	9901	−43	+18	45	170	1
N O-G	9901	−39	+18	41	97	12
	9901	−34	+18	37	388	14
	9905	−32	+14	34	73	1
	9905	−29	+14	31	24	2
	9903	−32	− 7	34	97	10
	9899	−13	−15	23	170	1
	9902	+ 5	− 7	12	12	6
	9902	+ 9	− 7	14	48	1
	9894	+25	−25	38	24	2
	9900	+32	+24	37	6	1
	9904	+48	− 6	50	12	2
	(8)	(317)	(+4)		1,121	53
13.656	9901	−29	+18	32	242	10
N O-G	9901	−21	+17	25	436	1
	9905	−20	+14	22	48	4
	9903	−19	− 7	23	73	6
	9899	0	−15	19	170	1
	9902	+21	− 6	24	36	1
	9904	+61	− 8	62	97	4
	(6)	(306)	(+4)		1,102	27
14.646	9908	−85	+14	85	145	1
N O-VG	9901	−17	+18	22	291	20
	9901	−12	+18	18	24	9
	9901	− 8	+17	16	436	1
	9905	− 7	+14	13	97	18

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Distance from center of disk	Area of spot or group	Spot count
July		°	°	°		
	9903	− 7	− 7	13	24	1
	9899	+13	−16	23	24	10
	9899	+14	−15	23	170	1
	9902	+34	− 5	36	24	1
	9904	+75	− 7	75	97	1
	9904	+80	− 8	80	145	1
	(7)	(293)	(+4)		1,477	64
15.801	9909	−80	+11	80	194	1
NO-G	9910	−78	−28	79	97	1
	9908	−72	+14	72	145	1
	9901	− 3	+18	15	388	13
	9901	+ 5	+19	16	12	10
	9901	+ 9	+17	17	388	1
	9905	+ 9	+14	13	73	7
	9905	+13	+13	16	24	4
	9903	+ 9	− 7	14	24	11
	9903	+12	− 6	15	61	5
	9899	+27	−15	33	6	1
	9899	+28	−15	34	145	1
	9902	+47	− 5	48	24	3
	(8)	(277)	(+4)		1,581	59
16.680	9911	−80	+18	80	24	1
NO-G	9909	−67	+11	67	194	1
	9910	−67	−29	71	12	3
	9910	−63	−28	69	145	1
	9910	−58	−27	64	6	1
	9908	−58	+14	58	145	1
	9901	+10	+18	18	388	25
	9901	+20	+17	24	388	1
	9905	+20	+14	22	24	11
	9903	+22	− 7	25	61	8
	9903	+25	− 5	26	24	9
	9903	+26	− 5	27	61	1
	9899	+40	−15	44	145	1
	(8)	(266)	(+4)		1,617	64
17.572	9911	−73	+22	74	6	2
MW-VG	9911	−66	+19	66	24	1
	9910	−57	−27	63	24	5
	9910	−53	−26	58	6	1
	9910	−50	−26	57	121	1
	9910	−47	−27	57	36	7
	9909	−55	+11	56	194	1
	9908	−46	+14	47	145	1
	9901	+23	+19	27	24	21
	9901	+30	+20	33	121	4
	9901	+31	+18	33	315	1
	9901	+35	+20	37	24	10
	9903	+34	− 5	36	36	1
	9903	+38	− 3	40	73	5
	9905	+35	+15	36	24	7
	9899	+53	−14	56	145	1
	(8)	(254)	(+5)		1,318	69

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Distance from center of disk	Area of spot or group	Spot count
July		°	°	°		
18.644	9915	−79	+12	79	12	1
NO-G	9914	−69	+ 2	69	12	2
	9913	−64	−26	68	24	7
	9912	−58	+ 6	58	24	4
	9911	−54	+22	56	24	8
	9911	−51	+19	53	12	1
	9909	−40	+11	40	194	1
	9910	−35	−27	47	145	1
	9910	−33	−25	43	12	10
	9908	−32	+14	33	170	1
	9901	+37	+18	40	73	8
	9901	+43	+19	44	16	2
	9901	+45	+18	47	339	1
	9901	+50	+17	52	48	3
	9903	+47	− 6	49	12	1
	9903	+52	− 5	54	48	2
	9899	+66	−14	68	145	1
	(11)	(240)	(+5)		1,310	54
19.644	9918	−76	− 6	76	291	1
NO-G	9915	−65	+12	65	48	1
	9914	−56	+ 2	57	6	1
	9913	−50	−27	57	36	5
	9912	−45	+ 6	45	36	1
	9917	−43	+12	43	73	7
	9911	−42	+22	44	48	8
	9911	−39	+19	40	48	2
	9909	−27	+11	27	194	1
	9910	−22	−27	39	97	1
	9908	−19	+14	21	121	1
	9916	+38	+13	39	36	10
	9901	+57	+18	57	388	1
	9901	+63	+18	63	6	4
	9899	+80	−14	80	121	1
	(13)	(226)	(+5)		1,549	45
20.647	9918	−62	− 6	63	291	1
NO-G	9915	−51	+12	52	48	1
	9913	−36	−27	47	61	10
	9912	−31	+ 6	31	24	4
	9917	−31	+12	32	97	5
	9917	−28	+11	29	145	2
	9911	−29	+20	32	73	10
	9911	−26	+19	29	97	2
	9909	−14	+10	15	194	1
	9910	−10	−28	34	97	1
	9908	− 7	+13	11	97	1
	9916	+48	+13	49	73	13
	9916	+51	+11	52	218	4
	9901	+71	+18	71	485	1
	(11)	(213)	(+5)		2,000	56
21.645	9918	−49	− 7	51	267	1
NO-G	9915	−38	+12	38	12	1
	9913	−27	−28	42	48	1

Date U.T. July	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk °	Area of spot or group	Spot count
	9913	−24	−27	40	24	8
	9917	−19	+12	21	194	2
	9917	−13	+12	15	121	3
	9911	−16	+20	22	73	6
	9911	−11	+19	18	145	2
	9909	− 1	+10	6	194	1
	9910	+ 3	−28	33	97	1
	9908	+ 4	+12	7	6	1
	9908	+ 7	+13	10	97	1
	9916	+60	+12	60	24	7
	9916	+65	+11	65	218	1
	9901	+84	+18	84	485	1
	(10)	(200)	(+5)		2,005	37
22.644	9920	−71	+ 9	71	12	2
N O-G	9920	−67	+ 9	67	36	1
	9918	−36	− 7	38	267	1
	9913	−13	−29	35	12	4
	9913	− 8	−27	33	12	2
	9917	− 5	+12	8	267	12
	9917	+ 1	+12	7	194	4
	9911	− 5	+20	17	48	4
	9911	+ 1	+20	15	97	1
	9922	− 4	− 9	14	16	7
	9909	+12	+11	13	170	1
	9910	+17	−28	37	73	1
	9908	+19	+13	21	12	2
	9908	+21	+13	23	73	1
	9916	+73	+14	73	24	1
	9916	+80	+11	80	145	1
	(10)	(187)	(+5)		1,458	45
23.706	9923	−85	+14	85	24	1
N O-G	9920	−58	+11	58	97	3
	9920	−56	+10	56	61	3
	9920	−53	+10	53	145	1
	9918	−22	− 7	25	266	1
	9914	− 5	+ 3	5	6	1
	9913	+ 6	−26	31	24	1
	9917	+ 8	+12	11	436	9
	9917	+15	+12	17	436	6
	9911	+ 9	+20	18	97	6
	9911	+15	+19	21	97	3
	9922	+ 9	− 8	16	12	6
	9921	+23	+16	25	73	6
	9909	+27	+11	28	170	1
	9910	+30	−27	43	48	1
	9908	+34	+13	35	97	1
	(12)	(173)	(+5)		2,089	50
24.659	9925	−78	−13	78	16	3
N O-G	9923	−71	+17	71	48	2
	9920	−47	+11	47	145	3
	9920	−40	+10	40	170	4
	9918	− 9	− 6	14	291	1
	9911	+20	+20	25	48	12

Date U.T. July	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk °	Area of spot or group	Spot count
	9911	+28	+20	32	97	7
	9913	+20	−26	38	12	1
	9922	+20	− 8	24	36	6
	9922	+25	− 8	25	12	3
	9917	+22	+13	23	388	18
	9917	+25	+15	27	194	12
	9917	+30	+13	32	533	17
	9924	+30	− 5	32	12	5
	9921	+35	+16	37	12	6
	9921	+40	+16	41	6	2
	9909	+41	+11	41	145	1
	9910	+43	−26	50	48	1
	9908	+48	+14	49	97	2
	(13)	(160)	(+5)		2,310	106
25.668	9927	−85	−22	85	291	1
N O-F	9927	−80	−20	80	194	1
	9925	−78	−14	78	97	6
	9925	−64	−13	66	242	1
	9926	−65	+21	65	24	2
	9923	−59	+17	60	48	1
	9920	−33	+11	34	121	8
	9920	−28	+ 9	29	73	5
	9920	−27	+ 9	28	194	1
	9918	+ 4	− 6	12	266	1
	9913	+30	+27	37	12	4
	9922	+37	− 7	40	24	3
	9917	+38	+13	39	339	20
	9917	+42	+13	43	436	4
	9911	+40	+18	42	73	5
	9924	+44	− 5	45	6	1
	9909	+54	+11	54	145	1
	9910	+57	−27	62	24	1
	9908	+60	+14	60	97	2
	(14)	(147)	(+5)		2,706	68
26.650	9927	−74	−22	76	970	8
N O-G	9927	−66	−21	67	121	1
	9925	−57	−12	60	242	10
	9925	−50	−13	53	242	1
	9926	−53	+23	55	6	1
	9923	−46	+17	47	36	1
	9920	−20	+12	22	61	8
	9920	−11	+11	12	170	4
	9918	+18	− 6	22	242	1
	9917	+48	+12	48	97	1
	9917	+50	+13	51	170	11
	9917	+58	+12	58	485	4
	9911	+54	+19	56	24	1
	9909	+68	+10	68	145	1
	9908	+74	+13	74	97	1
	(10)	(134)	(+5)		3,108	54
27.651	9927	−70	−23	73	145	6
N O-G	9927	−63	−12	65	679	4
	9927	−56	−22	60	533	9

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Distance from center of disk	Area of spot or group	Spot count
July		o	o	o		
	9927	−53	−21	48	97	1
	9925	−42	−12	45	388	5
	9925	−38	−13	42	194	2
	9925	−36	−13	40	291	1
	9923	−34	+17	35	36	1
	9920	− 7	+12	10	48	9
	9920	− 3	+10	6	24	6
	9920	+ 2	+11	6	97	8
	9918	+31	− 6	33	218	1
	9917	+60	+13	60	194	7
	9917	+61	+ 8	61	6	3
	9917	+70	+12	70	485	1
	9911	+68	+19	68	24	1
	9909	+80	+12	80	97	1
	(8)	(120)	(+5)		3,556	66
28.650	9928	−66	+13	66	58	2
NO-G	9927	−56	−23	63	194	8
	9927	−50	−20	57	582	1
	9927	−48	−22	55	436	8
	9927	−42	−21	50	388	1
	9927	−40	−20	48	121	1
	9925	−30	−13	35	533	5
	9925	−26	−13	32	97	8
	9925	−22	−13	29	582	1
	9923	−20	+18	23	36	4
	9920	+15	+10	15	97	10
	9918	+45	− 6	45	218	1
	9917	+75	+13	75	121	4
	9917	+85	+13	85	485	2
	(7)	(107)	(+6)		3,938	56
29.642	9932	−73	−24	77	12	1
NO-VG	9931	−70	− 7	70	12	4
	9928	−53	+13	53	24	4
	9927	−43	−23	52	194	18
	9927	−37	−20	46	582	2
	9927	−35	−22	45	145	20
	9927	−29	−22	41	436	1
	9927	−26	−20	37	97	1
	9927	−26	−19	36	48	16
	9925	−19	−13	27	242	1
	9925	−16	−13	25	194	32
	9925	− 9	−13	22	582	1
	9923	− 8	+18	14	24	4
	9930	− 4	+13	8	12	8
	9929	+ 8	+11	10	12	6
	9920	+20	+12	21	12	4
	9920	+28	+10	28	61	6
	9918	+58	− 6	60	218	1
	(10)	(94)	(+6)		2,907	130
30.644	9932	−59	−24	65	12	1
NO-G	9931	−58	− 5	59	36	1
	9928	−42	+14	43	12	2
	9928	−37	+14	38	24	1
	9927	−29	−23	42	170	15
	9927	−23	−20	35	582	1
	9927	−19	−21	33	194	15
	9927	−19	−16	28	24	11
	9927	−15	−23	33	388	1
	9927	−12	−21	31	73	1
	9927	−11	−17	27	61	2
	9925	− 7	−13	21	242	1
	9925	− 3	−13	20	291	16
	9925	+ 4	−15	22	48	2
	9925	+ 5	−13	21	630	1
	9923	+ 4	+19	14	12	2
	9930	+10	+13	12	24	4
	9930	+13	+11	14	16	5
	9920	+41	+11	41	24	5
	9918	+71	− 6	71	242	1
	(9)	(81)	(+6)		3,105	88
31.785	9931	−44	− 6	45	12	3
NO-G	9931	−40	− 5	43	48	1
	9928	−28	+14	30	6	2
	9928	−21	+14	23	12	2
	9927	−16	−23	33	48	4
	9927	− 9	−22	30	97	15
	9927	− 8	−20	28	582	1
	9927	− 4	−17	25	36	5
	9927	0	−22	28	485	1
	9927	0	−19	25	145	10
	9927	+ 2	−19	25	48	1
	9927	+ 9	−19	27	12	2
	9925	+10	−12	20	194	4
	9925	+13	−12	22	194	15
	9925	+20	−12	27	630	1
	9925	+18	−15	27	36	2
	9934	+16	+23	23	12	4
	9930	+27	+12	28	12	1
	9920	+57	+10	57	6	1
	(7)	(66)	(+6)		2,615	75

Mean daily area for 31 days = 1,736
Mean 10 g+s for 31 days = 146.0

Date U.T.	Mount Wilson group No.	Heliographic Difference in longitude	Heliographic Latitude	Distance from center of disk	Area of spot or group	Spot count
Aug.		o	o	o		
1.680	9936	−50	+ 9	50	6	1
NO-F	9935	−42	−11	45	24	5
	9931	−30	− 6	33	48	6
	9931	−27	− 5	30	48	1
	9927	− 4	−23	29	24	2
	9927	+ 4	−20	27	533	1
	9927	+ 5	−19	26	97	14
	9927	+ 9	−17	25	24	3
	9927	+12	−20	28	97	6
	9927	+13	−22	32	630	1
	9927	+14	−21	31	145	1
	9925	+23	−12	28	242	6
	9925	+27	−12	32	97	4
	9925	+32	−13	38	533	2
	9925	+32	−16	38	48	4

Date U.T. Aug.	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk °	Area of spot or group	Spot count
	9930	+40	+12	40	36	4
	9930	+45	+14	45	24	1
	(*)	+50	+20	51	12	2
	(7)	(54)	(+6)		2,668	64
2.692	9936	−39	+ 9	39	24	1
N O-F	9931	−18	− 4	22	36	2
	9931	−13	− 4	17	73	4
	9927	+ 8	−23	31	48	4
	9927	+15	−21	31	48	1
	9927	+19	−19	31	388	2
	9927	+24	−23	39	776	1
	9927	+28	−18	37	48	1
	9925	+35	−12	40	242	6
	9925	+40	−13	44	291	8
	9925	+44	− 9	47	6	1
	9925	+45	−12	49	388	1
	9930	+49	+13	49	24	1
	9930	+53	+12	53	48	1
	(5)	(41)	(+6)		2,440	34
3.641	9936	−26	+ 9	26	48	7
N O-F	9931	− 6	− 4	12	48	6
	9931	0	− 5	11	73	4
	9937	+14	+16	17	12	3
	9927	+21	−23	35	61	6
	9927	+23	−21	36	36	1
	9927	+31	−19	40	388	4
	9927	+37	−23	46	776	6
	9927	+39	−19	46	48	1
	9925	+48	−12	52	218	5
	9925	+52	−13	56	291	4
	9925	+59	−12	61	388	1
	9930	+63	+13	63	48	1
	9930	+67	+12	67	36	4
	(6)	(28)	(+6)		2,471	53
4.650	9939	−68	−15	71	12	1
N O-F	9936	−12	+ 9	12	48	7
	9936	− 8	+ 9	8	61	2
	9931	+14	− 4	16	24	2
	9927	+34	−23	45	73	11
	9927	+43	−19	50	339	3
	9927	+45	−22	53	194	1
	9927	+50	−22	58	485	7
	9927	+50	−19	57	48	1
	9925	+60	−12	63	97	2
	9925	+66	−15	68	291	2
	9925	+70	−12	73	582	2
	9930	+76	+13	76	61	4
	(6)	(15)	(+6)		2,315	45
5.650	9940	−80	+18	80	242	1
N O-G	9939	−58	−16	62	12	1
	9936	+ 2	+10	4	61	6
	9936	+ 6	+ 9	6	97	2
	9931	+28	− 4	31	24	2
	9927	+45	−23	53	24	1

Date U.T. Aug.	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk °	Area of spot or group	Spot count
	9927	+50	−20	57	61	1
	9927	+57	−18	62	291	2
	9927	+58	−21	64	291	1
	9927	+63	−21	68	485	5
	9927	+65	−18	70	48	2
	9925	+74	−12	76	97	2
	9925	+85	−15	85	242	1
	9925	+88	−12	88	582	3
	(6)	(1)	(+6)		2,557	30
6.644	9940	−66	+18	66	242	1
N O-F	9936	+15	+10	15	73	3
	9936	+20	+ 9	20	97	4
	9931	+40	− 4	42	12	2
	9927	+66	−19	70	48	1
	9927	+71	−22	76	291	1
	9927	+71	−18	77	291	2
	9927	+78	−21	80	582	1
	9941	+74	+16	74	6	1
	(5)	(348)	(+6)		1,642	16
7.643	9940	−53	+18	54	291	1
N O-G	(*)	−15	+20	21	6	1
	9943	− 7	− 7	15	16	2
	9936	+29	+10	29	48	4
	9936	+33	+ 8	33	61	6
	9942	+41	+12	41	12	3
	(5)	(335)	(+6)		434	17
8.642	9940	−40	+18	42	303	1
N O-G	9936	+42	+11	42	12	1
	9936	+47	+ 9	47	6	1
	9936	+48	+ 8	48	61	2
	9942	+55	+13	55	24	2
	9931	+64	− 4	65	6	1
	(4)	(322)	(+6)		412	8
9.642	9940	−31	+14	32	6	1
N O-G	9940	−28	+18	31	242	1
	9944	−18	+13	21	12	3
	9936	+62	+ 9	62	97	4
	9942	+68	+13	68	48	2
	(4)	(309)	(+6)		405	11
10.644	9946	−54	+ 8	54	12	3
N O-G	9940	−13	+18	18	242	1
	9944	− 2	+14	8	12	2
	9945	+58	−23	63	24	4
	9936	+76	+ 8	76	73	1
	9942	+83	+12	83	36	2
	(6)	(295)	(+6)		399	13
11.648	9946	−43	+10	43	24	4
N O-G	9940	0	+18	12	242	1
	(2)	(282)	(+6)		266	5

Date U.T. Aug.	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Heliographic Distance from center of disk °	Area of spot or group	Spot count
12.651 NO-G	9949	−88	+11	88	194	1
	9948	−78	+12	78	194	2
	9948	−76	+11	76	145	1
	9946	−31	+10	31	61	7
	9946	−31	+14	32	24	4
	9940	+13	+18	17	218	1
	9947	+46	−12	48	48	11
	(5)	(269)	(+7)		884	27
13.720 NO-F	9949	−75	+13	75	582	9
	9949	−72	+11	72	194	1
	9948	−64	+12	64	194	2
	9948	−62	+11	62	97	1
	9950	−29	+11	29	48	5
	9950	−28	+13	29	48	8
	9946	−19	+13	21	48	2
	9946	−16	+ 9	17	194	10
	9946	−13	+11	14	148	3
	9940	+27	+19	30	230	1
	9947	+59	−13	62	97	2
	9947	+62	−14	65	145	1
	(6)	(255)	(+7)		1,925	45
14.578 MW-VG	9949	−66	+13	66	582	20
	9949	−63	+11	63	36	1
	9949	−60	+12	60	97	1
	9949	−60	+11	60	194	11
	9948	−53	+12	53	21	7
	9948	−50	+11	50	97	1
	9948	−47	+11	47	24	2
	9948	−43	+13	43	36	5
	9950	−19	+12	20	24	5
	9950	−17	+11	19	97	1
	9950	−14	+13	15	61	17
	9946	− 7	+14	11	12	7
	9946	− 6	+ 9	6	145	1
	9946	− 4	+11	5	48	9
	9946	− 1	+ 9	2	194	1
	9946	0	+ 8	1	6	1
	9940	+39	+19	40	218	1
	9951	+47	+13	47	48	7
	9947	+70	−12	72	121	10
	9947	+77	−11	78	194	1
	(7)	(243)	(+7)		2,355	109
15.588 MW-VG	9954	−77	− 5	77	97	1
	9953	−66	+13	66	48	6
	9952	−60	−13	63	6	1
	9949	−57	+13	57	73	1
	9949	−52	+14	52	485	35
	9949	−51	+17	51	170	24
	9949	−47	+13	47	170	4
	9949	−47	+11	47	24	14
	9948	−39	+14	39	97	12
	9948	−37	+11	37	97	1
	9948	−32	+12	32	145	25
	9948	−27	+12	28	24	8
	9950	− 4	+14	7	48	6
	9950	− 3	+11	5	73	9
	9950	+ 2	+13	6	48	10
	9946	+ 8	+ 9	8	121	1
	9946	+11	+ 9	11	12	7
	9946	+12	+ 9	12	145	1
	9940	+51	+19	51	248	1
	9951	+59	+13	59	12	5
	9951	+63	+11	63	24	4
	(9)	(230)	(+7)		2,137	176
16.656 NO-VG	9955	−88	+10	88	388	1
	9954	−63	− 6	65	48	1
	9953	−57	+11	57	48	1
	9953	−51	+11	51	12	2
	9953	−47	+11	47	73	2
	9949	−39	+14	39	436	28
	9949	−38	+17	39	170	10
	9949	−33	+13	34	194	13
	9948	−25	+14	27	36	10
	9948	−22	+12	23	73	1
	9948	−17	+12	18	97	18
	9950	+ 9	+10	10	48	3
	9950	+13	+15	16	48	10
	9950	+17	+13	19	12	1
	9946	+21	+12	22	6	1
	9946	+21	+ 8	21	97	1
	9946	+27	+ 8	27	145	2
	9940	+65	+19	65	242	1
	9951	+75	+11	75	6	1
	(9)	(216)	(+7)		2,179	107
17.677 NO-G	9955	−82	+11	82	12	1
	9955	−74	+10	74	582	1
	9954	−49	− 7	51	61	1
	9953	−44	+11	44	61	5
	9953	−38	+11	38	36	1
	9953	−32	+10	32	48	1
	9949	−25	+15	27	582	50
	9949	−19	+11	20	145	12
	9948	−10	+13	12	48	6
	9948	− 8	+11	10	48	1
	9956	+23	− 7	27	61	4
	9950	+23	+10	23	24	4
	9950	+24	+14	25	36	5
	9950	+30	+14	31	48	2
	9946	+35	+ 8	35	73	1
	9946	+40	+ 8	40	97	5
	9940	+79	+18	79	242	1
	(9)	(202)	(+7)		2,204	101
18.828 NO-F	9958	−79	+18	79	291	2
	9955	−59	+10	59	679	1
	9954	−33	− 7	36	48	1
	9953	−28	+11	28	48	4
	9953	−20	+10	20	73	10

Date U.T. Aug.	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk °	Area of spot or group	Spot count
	9953	−16	+10	17	145	1
	9949	− 9	+15	12	970	40
	9949	− 3	+13	6	145	6
	9948	+ 6	+13	8	24	6
	9948	+ 7	+11	7	48	1
	9956	+37	− 7	41	97	4
	9956	+41	− 7	43	61	3
	9950	+44	+14	44	36	4
	9946	+49	+ 8	49	24	2
	9946	+54	+ 9	54	97	1
	(9)	(187)	(+7)		2,786	86
19.802 NO-G	9958	−66	+18	66	291	2
	9960	−58	+ 8	58	6	1
	9960	−54	+12	54	12	4
	9955	−47	+ 8	47	6	2
	9955	−46	+10	46	485	1
	9954	−20	− 7	25	48	1
	9953	−17	+11	18	48	4
	9953	− 7	+ 9	8	145	19
	9953	− 3	+ 9	3	242	1
	9949	+ 5	+14	8	1,164	40
	9949	+10	+13	12	97	6
	9948	+19	+12	20	12	4
	9948	+20	+11	21	36	1
	9959	+30	+16	31	12	4
	9956	+50	− 7	53	194	3
	9956	+54	− 7	55	73	8
	9946	+67	+ 9	67	97	1
	9957	+82	+18	82	97	2
	(11)	(174)	(+7)		3,065	104
20.649 NO-F	9964	−81	−13	82	388	
	9964	−78	−11	79	12	2
	9958	−60	+20	61	48	2
	9958	−53	+18	53	291	2
	9963	−47	+11	47	6	1
	9960	−44	+17	45	24	5
	9955	−33	+10	33	533	1
	9954	− 8	− 7	17	36	1
	9953	− 5	+11	6	24	6
	9953	+ 3	+10	4	121	14
	9953	+ 8	+ 9	9	48	1
	9953	+ 9	+10	10	291	1
	9962	+ 7	−17	26	48	3
	9949	+16	+15	18	921	30
	9949	+22	+14	23	145	6
	9948	+30	+12	30	12	1
	9956	+60	− 7	63	218	1
	9956	+61	− 8	64	6	1
	9956	+67	− 8	68	48	9
	(11)	(163)	(+7)		3,220	88
21.671 NO-G	9966	−84	+17	84	194	1
	9965	−73	−17	76	194	1
	9964	−68	−13	70	291	1
	9964	−67	−11	69	6	1
	9958	−45	+20	46	97	11
	9958	−40	+18	41	194	1
	9960	−30	+17	32	48	8
	9955	−22	+10	22	12	1
	9955	−20	+10	20	582	1
	9954	+ 6	− 7	16	24	1
	9953	+17	+ 9	17	145	15
	9953	+21	+10	21	12	1
	9953	+23	+10	23	267	1
	9962	+23	−17	34	24	6
	9962	+29	−17	38	12	2
	9949	+25	+11	26	48	1
	9949	+30	+14	31	679	25
	9949	+38	+12	38	12	2
	9948	+44	+12	44	12	1
	9956	+74	− 7	75	242	1
	(12)	(150)	(+7)		3,095	82
22.643 NO-G	9968	−78	−18	79	107	1
	9968	−75	−21	78	145	2
	9966	−71	+17	72	242	1
	9965	−60	−17	64	194	1
	9964	−54	−12	57	242	1
	9958	−32	+20	34	12	4
	9958	−28	+18	31	291	2
	9960	−17	+17	21	145	10
	9955	− 8	+10	9	582	1
	9955	−10	+10	11	24	9
	9954	+18	− 7	23	24	1
	9953	+28	+ 9	28	121	12
	9953	+32	+10	32	48	6
	9953	+36	+10	36	242	1
	9962	+35	−18	43	24	6
	9949	+43	+14	43	533	30
	9949	+51	+12	51	12	1
	9967	+57	+ 7	57	73	6
	(12)	(137)	(+7)		3,061	95
23.730 NO-G	9968	−65	−18	69	145	1
	9968	−62	−21	66	194	1
	9968	−60	−21	65	48	3
	9966	−57	+17	58	194	1
	9965	−46	−17	52	194	1
	9964	−43	−13	46	12	3
	9964	−40	−12	43	206	1
	9958	−16	+19	20	24	6
	9958	−14	+19	18	242	1
	9969	− 6	−15	23	61	11
	9960	− 3	+17	10	242	25
	9955	+ 4	+11	5	24	8
	9955	+ 8	+10	9	582	1
	9954	+32	− 7	35	12	1
	9953	+41	+10	41	48	6
	9953	+48	+10	48	61	1
	9953	+50	+10	50	315	1
	9949	+52	+12	52	24	6
	9949	+57	+15	57	194	13

Date U.T. Aug.	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk °	Area of spot or group	Spot count
	9949	+68	+12	68	24	1
	9962	+53	−16	57	12	3
	9967	+70	+ 7	70	194	6
	(13)	(122)	(+7)		3,052	101
24.667 N O-G	9968	−50	−19	56	97	1
	9968	−48	−22	55	121	1
	9968	−47	−21	53	24	4
	9966	−44	+17	45	194	1
	9965	−32	−17	39	145	1
	9965	−31	−15	37	24	10
	9964	−28	−13	35	242	1
	9964	−27	−11	33	24	8
	9964	−26	−15	33	6	1
	9958	− 3	+19	13	24	10
	9958	− 2	+19	12	218	1
	9969	+ 7	−15	24	73	5
	9960	+ 8	+16	13	339	9
	9960	+ 9	+12	11	121	7
	9960	+12	+16	16	291	8
	9955	+19	+13	21	12	10
	9955	+20	+10	20	533	1
	9954	+45	− 7	47	12	1
	9953	+60	+11	60	48	1
	9953	+62	+11	62	291	1
	9962	+65	−19	68	6	1
	9949	+70	+13	70	12	2
	9949	+70	+16	71	145	5
	9967	+82	+ 7	82	24	1
	(13)	(110)	(+7)		3,026	91
25.646 N O-G	9971	−82	+13	82	12	1
	9968	−38	−19	46	97	1
	9968	−35	−22	45	194	1
	9968	−33	−22	43	12	10
	9966	−32	+17	33	194	1
	9965	−20	−17	31	194	1
	9965	−19	−15	30	24	18
	9964	−15	−13	24	242	1
	9964	−13	−10	22	24	15
	9958	+ 4	+20	13	24	14
	9958	+ 8	+20	17	24	16
	9958	+ 8	+17	14	24	7
	9958	+10	+20	16	218	2
	9969	+20	−15	30	36	5
	9969	+23	−13	31	36	3
	9960	+22	+13	22	145	8
	9960	+23	+16	25	388	16
	9960	+26	+15	26	582	1
	9960	+27	+17	29	97	9
	9955	+31	+12	31	24	3
	9955	+33	+10	33	533	2
	9953	+74	+10	74	48	1
	9953	+75	+10	75	291	1
	(10)	(97)	(+7)		3,463	137

Date U.T. Aug.	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk °	Area of spot or group	Spot count
26.750 N O-G	9972	−83	+ 8	83	48	1
	9972	−80	+10	80	291	2
	9972	−76	+ 8	76	145	2
	9971	−67	+13	68	12	3
	9968	−25	−19	36	73	1
	9968	−22	−22	35	97	1
	9968	−21	−16	31	12	1
	9968	−21	−22	36	48	5
	9966	−19	+17	22	194	1
	9965	− 8	−17	25	12	1
	9965	− 7	−18	26	145	1
	9964	− 3	−13	21	24	7
	9964	− 2	−12	19	242	1
	9970	+ 9	−19	27	12	2
	9958	+19	+20	22	24	10
	9958	+23	+20	26	194	1
	9960	+33	+13	34	170	5
	9960	+37	+16	37	873	20
	9960	+42	+16	42	61	2
	9955	+42	+11	42	12	2
	9955	+47	+10	47	485	3
	(10)	(83)	(+7)		3,174	72
27.649 N O-G	9974	−71	−22	76	48	3
	9972	−70	+ 8	70	73	1
	9972	−68	+10	68	388	2
	9972	−67	+11	67	97	2
	9972	−61	+ 7	61	145	4
	(*)	−57	+13	57	12	15
	9971	−54	+13	54	6	1
	9968	−11	−19	28	97	1
	9968	− 9	−22	31	121	5
	9966	− 5	+17	12	194	1
	9965	+ 6	−17	25	194	1
	9965	+ 7	−18	26	12	7
	9964	+10	−13	22	24	10
	9964	+11	−12	22	218	1
	9973	+28	+15	30	12	4
	9958	+30	+18	32	24	9
	9958	+35	+19	36	61	4
	9958	+37	+20	38	194	1
	9960	+48	+16	48	824	20
	9960	+52	+13	52	291	1
	9960	+55	+16	55	48	1
	9955	+60	+10	60	533	3
	(12)	(71)	(+7)		3,616	97
29.642 N O-G	9977	−85	−12	85	73	1
	9974	−49	−21	55	12	1
	9974	−43	−25	52	73	5
	9972	−41	+ 9	41	61	11
	9972	−40	+10	40	206	1
	9972	−33	+ 7	33	145	4
	9971	−29	+12	29	12	10
	9971	−22	+11	23	24	8
	9976	−25	− 7	29	24	9

Date U.T. Aug.	Mount Wilson group No.	Heliographic Difference in longitude °	Heliographic Latitude °	Distance from center of disk	Area of spot or group	Spot count
	9968	+16	−19	31	73	1
	9968	+18	−21	33	267	14
	9966	+21	+17	23	170	1
	9965	+32	−17	40	97	8
	9965	+33	−15	40	242	1
	9965	+33	−13	39	145	10
	9964	+37	−12	42	12	7
	9964	+40	−12	43	194	1
	9973	+62	+16	62	48	2
	9958	+63	+20	63	291	4
	9960	+78	+14	78	873	10
	9955	+88	+10	88	436	1
	(13)	(44)	(+7)		3,478	110
30.672 NO-F	9978	−84	+ 9	84	194	1
	9978	−79	+10	79	582	1
	9977	−69	−12	71	145	1
	9972	−29	+ 8	29	6	1
	9972	−28	+ 9	28	97	4
	9972	−27	+11	27	218	1
	9972	−18	+ 7	18	109	1
	9974	−28	−22	41	48	1
	9976	−12	− 8	19	72	6
	9976	− 8	− 8	18	48	1
	9968	+29	−19	39	61	1
	9968	+31	−21	41	242	7
	9968	+32	−23	43	97	1
	9966	+35	+17	36	145	2
	9965	+46	−17	51	388	9
	9965	+49	−19	53	48	1
	9964	+53	−12	56	194	1
	9958	+77	+20	77	242	1
	(10)	(31)	(+7)		2,937	41
31.597 MW-VG	9981	−84	+13	84	242	1
	9981	−78	+12	78	121	3
	9978	−70	+10	70	194	1
	9978	−68	+12	68	24	4
	9978	−65	+10	65	485	1
	9977	−65	−12	67	12	2
	9977	−56	−12	59	121	1
	9980	−55	− 6	57	73	8
	9972	−18	+ 8	18	48	10
	9972	−15	+12	15	145	9
	9972	−12	+10	13	24	7
	9972	− 6	+ 8	6	97	5
	9974	−17	−22	33	24	10
	9976	+ 1	− 8	6	97	17
	9976	+ 4	− 8	5	48	8
	9976	+·7	− 8	17	194	6
	9971	+ 3	+13	6	24	12
	9968	+41	−19	48	61	1
	9968	+44	−22	52	97	8
	9968	+45	−20	52	145	12
	9966	+48	+17	48	121	1
	9965	+58	−17	61	485	11
	9965	+60	−20	65	24	7
	9965	+61	−15	65	24	4
	9964	+62	−14	66	12	7
	9964	+64	−13	67	194	1
	9964	+65	−18	68	6	1
	(12)	(19)	(+7)		3,142	158

Mean daily area for 30 days = 2,294
Mean 10 g+s for 30 days = 153.8

NAVY-DPPO PRNC. WASH. D.C.